Conservation
Service

Washington Basin Outlook Report May 1, 1994

Basin Outlook Reports
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:

Local Soil Conservation Service Field Office
or
Scott Pattee
Acting Water Supply Specialist
Soil Conservation Service
W. 316 Boone Ave., Suite 450
Spokane, WA 99201-2348
(509) 353-2341

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

Washington
Water Supply Outlook

May 1994

General Outlook

Forecasts for 1994 runoff vary from 92% of average for the Columbia near Birchbank to 41% for the Spokane River. As of May 1 The snowpack varied from a high of 88% of average in the Cowlitz - Lewis River Basin to 40% in the Spokane River Basin. Washington SNOTEL sites averaged 70% of the normal snowpack, down from 81% on April 1 (By May 6, the statewide average was 67%). April precipitation was 105% of normal statewide. It varied from 193% of average in the Okanogan - Methow Basins to 71% in the Yakima Basin. Year-to-date precipitation varies from 64% in the Spokane and Yakima Basins to 83% in the Olympic Basin. April temperatures were three to four degrees above normal across the state. April streamflows varied from 225% of normal in the Similkameen to 56% in the Yakima River at Kiona. By May 1, reservoir storage increased slightly throughout the state, with reservoirs in the Yakima Basin at 66% of average and 48% of capacity.

Snowpack

By May 1 several lower elevation SNOTEL sites, such as Salmon Meadows, Pope Ridge, Trough, Blewett Pass, Lost Horse and Mount Gardner were showing no or near little snow. On average snowpack at these sites should not be melted complete yet. Maximum snow cover was at Paradise SNOTEL near Mount Rainier, with a water content of 61.2 inches. Normal May 1 water content for this site would be 61.8 inches. The May 1 SNOTEL reading showed the statewide snowpack to be 70% of average. Snowpack varied considerably over the state, with the Spokane River Basin having the lowest at 40% of average, and the Olympic Basin having the highest at 91% of normal. Westside snowpack averages are: the Skagit River Basin with 59%, the Baker River basin at 72%, the Lewis - Cowlitz Basin had 88% and the White River at 75%. Snowpack along the east slopes of the Cascade Mountains included the Yakima Basin with 68% of normal, and the Wenatchee with 70%. Snowpack in the Okanogan Basin was at 57% of normal, and the Kettle had 60%.

Precipitation

April precipitation varied from 193% of average in the Okanogan - Methow River Basins, to 71% in the Yakima Basin. April precipitation reported from National Weather Service stations was 105% of average statewide. The year-to-date precipitation statewide is 69%. It varies from 64% of normal in the Spokane and Yakima Basins, to 83% in the Olympic Basin. SNOTEL sites in Washington showed high elevation year-to-date precipitation values to be 78% of average. Maximum year-to-date precipitation was at the June Lake SNOTEL site near Mt. St. Helens, with 112.6 inches since October 1, 1993. Normal for this site is 129.8 inches.

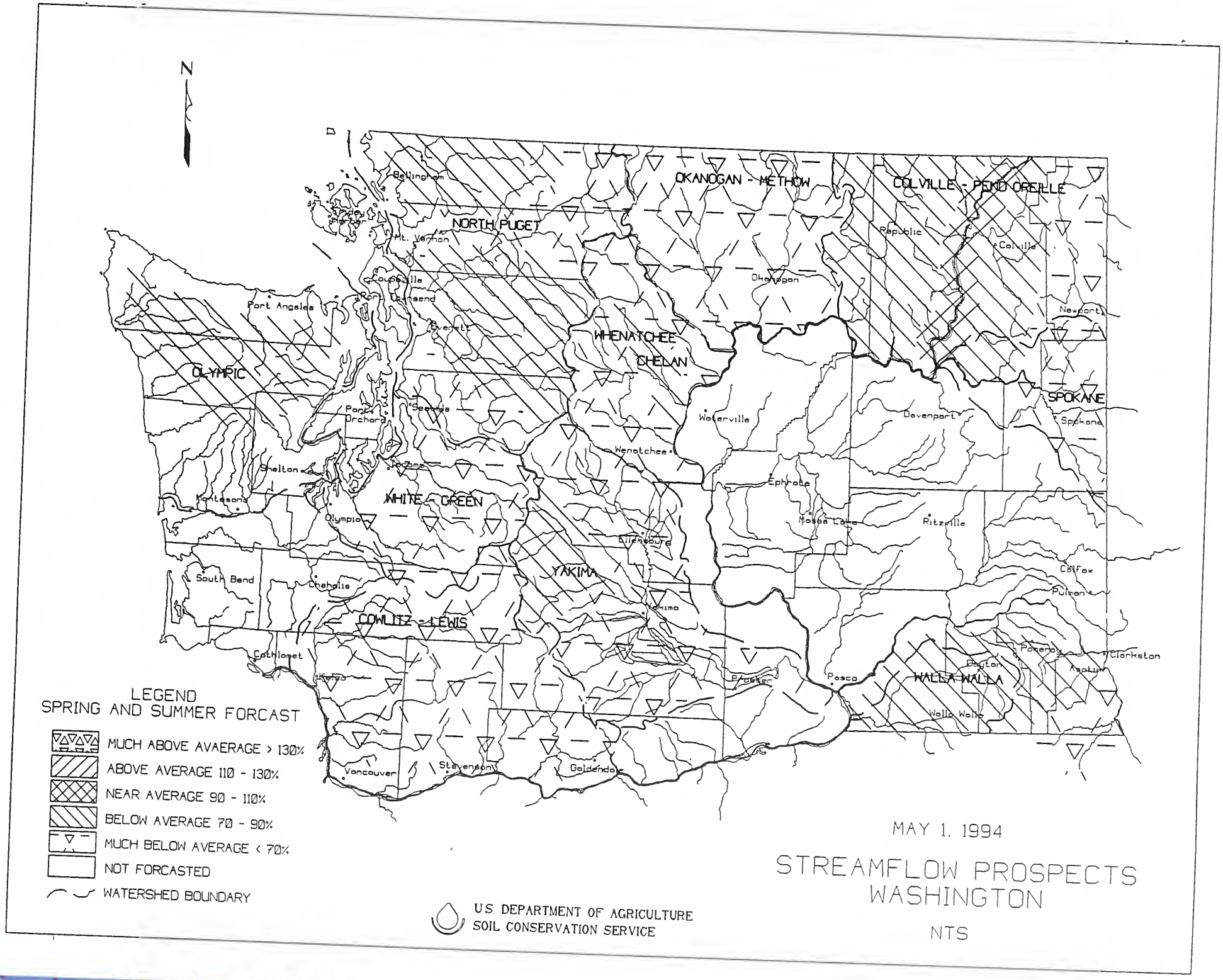
Reservoir

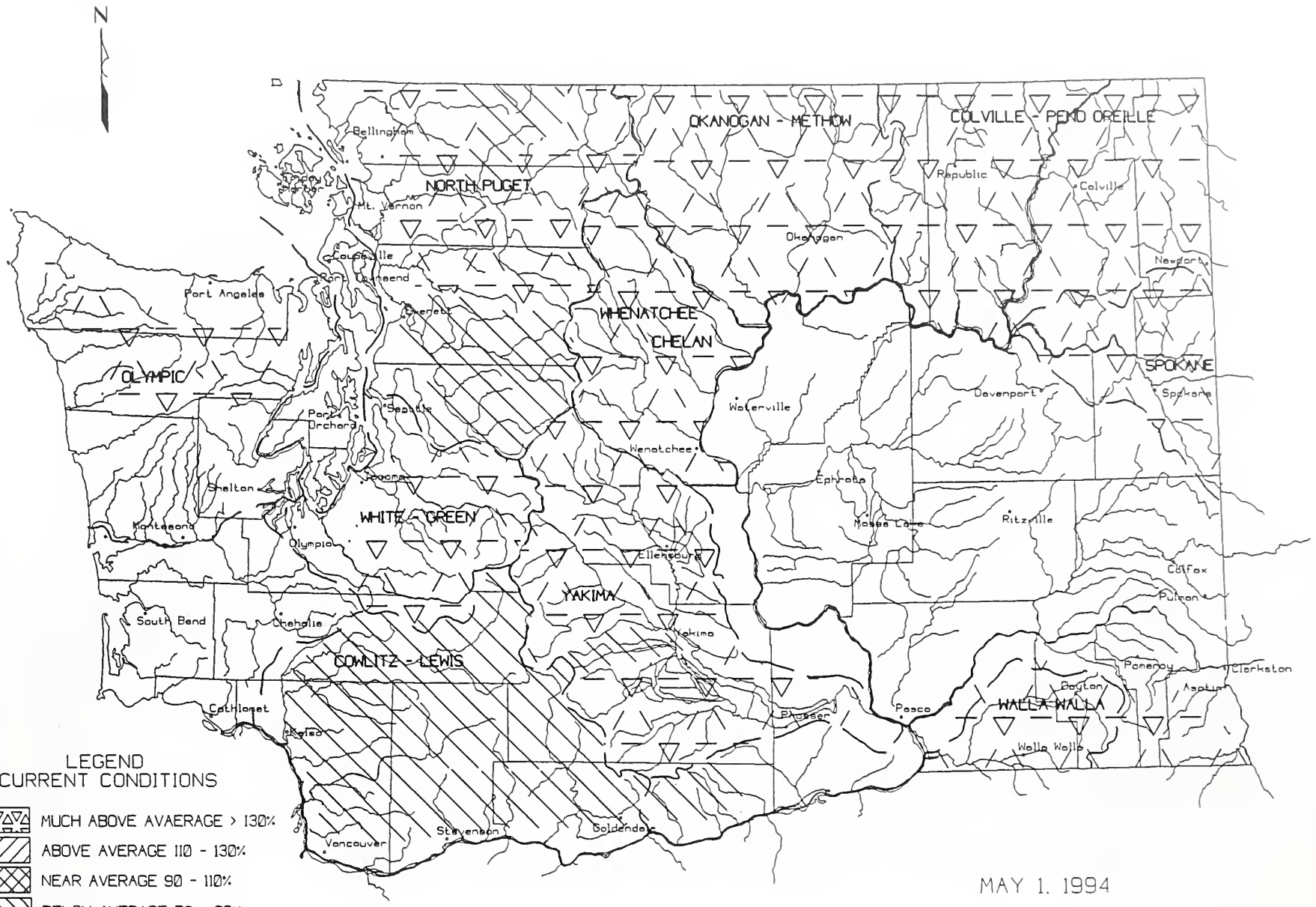
With increased snow melt and runoff due to warmer temperatures, reservoir levels continued to rise. Reservoir storage in the Yakima Basin was 513,200 acre feet, 66% of normal. Storage at other reservoirs included Roosevelt at 320% of average, and the Okanogan reservoirs at 134% of normal for May 1. The power generation reservoirs included the following: Coeur d'Alene Lake, 184,500 acre feet, or 75% of normal; Chelan Lake, 281,300 acre feet, 63% of average and 42% of capacity, and Ross Lake at 139% of average and 64% of capacity.

Streamflow

April streamflows varied greatly in Washington. Similkameen Creek at Nighthawk was the highest at 225% of normal, the Yakima River at Kiona with 56% of normal, was still the lowest in the state. Other streamflows were the following percentage of normal: the Cowlitz River, 95%; the Okanogan River, 206%; the Wenatchee River, 143%; the Columbia at the Canadian border, 157%, and the Spokane River, 67%. Forecasts for summer streamflows are for below to much below average. They vary from 92% of average for the Columbia near Birchbank to 41% of normal for the Spokane River near Post Falls. May forecasts for some Westside streams include: Cedar River, 64%; Green River, 69%; and the Dungeness River, 73%. Some eastside streams include the Grande Ronde River, 51%; the Wenatchee River, 54%; and the Pend Oreille River, 54%. Salmon Creek near Conconully is forecast to have 67% of normal runoff and the Yakima near Parker 65%.

For more information contact your local Soil Conservation Service office.


N
OKANOGAN - METHOW
COLVILLE - PEND OREILLE
NORTH PUGET
Bellingham
Mt. Vernon
Coupeville
Port Townsend
Port Angeles
Everett
Republic
Colville
Okanogan
Newport
OLYMPIC
WHENATCHEE
CHELAN
SPOKANE
Port Orchard
Seattle
Waterville
Davenport
Spokane
Tacoma
Wenatchee
Shelton
Ephrata
WHITE - GREEN
Moses Lake
Ritzville
Olympia
Ellensburg
YAKIMA
South Bend
Chehalis
Colfax
Pullman
Yakima
COWLITZ - LEWIS
Cathlamet
Kelso
Pomeroy
Clarkston
Dayton
Asotin
Pasco
Prosser
WALLA WALLA
Walla Walla
Vancouver
Stevenson
Goldendale
LEGEND
SPRING AND SUMMER FORCAST
MUCH ABOVE AVAERAGE > 130%
ABOVE AVERAGE 110 - 130%
NEAR AVERAGE 90 - 110%
BELOW AVERAGE 70 - 90%
MUCH BELOW AVERAGE < 70%
NOT FORCASTED
WATERSHED BOUNDARY
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MAY 1, 1994
STREAMFLOW PROSPECTS
WASHINGTON
NTS



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MAY 1, 1994

MOUNTAIN SNOWPACK
WASHINGTON

NTS

LOST - DATA CURRENT AS OF: 5/ 9/94 9:55:50

BASIN SUMMARY OF SNOW COURSE DATA

MAY 1994

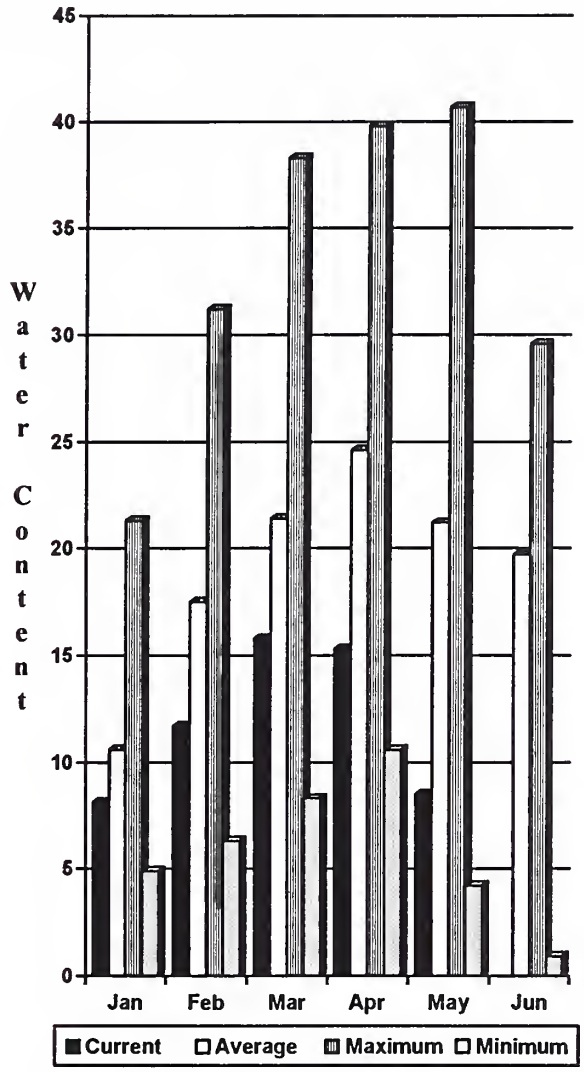
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
PEND OREILLE RIVER						
BENTON MEADOW	2370	4/29/94	0	.0	.0	.0
BENTON SPRING	4920	4/29/94	5	2.2	11.6	13.6
BOYER MOUNTAIN	5250	4/26/94	30	12.8	19.6	23.6
BUNCHGRASS MEADOWS	5000	4/28/94	40	18.9	21.0	26.8
BUNCHGRASS MDWPILLOW	5000	5/01/94	---	13.9	21.3	26.9
HOODOO BASIN	6050	5/01/94	---	28.6E	35.1	51.2
HOODOO CREEK	5900	5/01/94	---	23.4E	32.1	47.1
LOOKOUT PILLOW	5140	5/01/94	---	13.5	29.0	29.3
NELSON CAN.	3100	4/26/94	10	3.9	3.3	7.2
KETTLE RIVER						
BARNES CREEK CAN.	5300	4/27/94	35	16.6	18.8	20.5
BIG WHITE MTN CAN.	5510	5/01/94	36	13.9	16.0	19.9
CARMI CAN.	4100	5/01/94	0	.0	.0	1.7
FARRON CAN.	4000	4/25/94	14	5.6	5.9	10.4
GRAYSTOKE LAKE CAN.	5940	5/02/94	28	11.0	16.1	18.1
MONASHEE PASS CAN.	4500	4/27/94	165	6.6	10.1	12.8
TRAPPING CK LOW CAN.	3050	5/01/94	0	.0	.0	.0
TRAPPING CK UP CAN.	4460	5/01/94	0	.0	1.8	5.6
COLVILLE RIVER						
OMAK LAKE, TWIN LAKES						
MOSES MTN PILLOW	4800	5/01/94	---	.0S	--	7.3
SPOKANE RIVER						
FOURTH OF JULY SUM	3200	5/01/94	0	.0	.0	.0
LOST LAKE (d)	6110	5/01/94	---	24.5E	46.8	57.1
MOSQUITO RDG PILLOW	5200	5/01/94	---	15.0	30.5	34.7
SUNSET PILLOW	5540	5/01/94	---	15.1	28.9	36.5
LOOKOUT PILLOW	5140	5/01/94	---	13.5	29.0	29.3
NEWMAN LAKE						
QUARTZ PEAK PILLOW	4700	5/01/94	---	4.8	16.8	18.6
OKANOGAN RIVER						
ABERDEEN LAKE CAN.	4300	5/01/94	0	.0	.6	1.7
BLACKWALL PEAK CAN.	6370	5/01/94	---	19.9	23.0	36.3
BRENDA MINE CAN.	4800	4/29/94	5	2.2	10.3	9.8
BROOKMERE CAN.	3200	4/30/94	0	.0	.0	5.1
ENDERBY CAN.	6200	4/30/94	92	41.3	38.2	42.9
ESPERON CK. UP CAN.	5410	5/01/94	26	9.5	15.9	17.5
FREEZEOUT CK. TRAIL	3500	4/27/94	0	.0	.7	7.0
GREYBACK RES CAN.	5120	4/26/94	6	2.0	8.3	7.7
HAMILTON HILL CAN.	4890	5/01/94	1	.3	8.1	12.6
HARTS PASS	6500	4/27/94	67	31.1	33.4	45.1
HARTS PASS PILLOW	6500	5/01/94	---	26.7S	35.8	42.0
ISINTOK LAKE CAN.	5500	4/27/94	0	.0	7.8	6.3
LIGHTNING LAKE CAN.	4000	5/02/94	3	.9	5.3	11.5
LOST HORSE MTN CAN.	6300	5/03/94	10	3.0	8.9	10.3
MCCULLOCH CAN.	4200	4/29/94	0	.0	.0	2.4
MISSEZULA MTN CAN.	5090	5/01/94	0	.0	4.5	7.0
MISSION CREEK CAN.	5800	5/02/94	46	18.9	22.9	21.8
MONASHEE PASS CAN.	4500	4/27/94	165	6.6	10.1	12.8
MT. KOBAU CAN.	5900	4/28/94	22	8.3	14.2	13.3
OYAMA LAKE CAN.	4400	4/29/94	1	.3	2.0	3.1
POSTILL LAKE CAN.	4500	5/02/94	8	2.6	6.5	6.4
SALMON MDWS PILLOW	4500	5/01/94	---	.0S	3.9	1.1
SILVER STAR MTN CAN.	6000	4/28/94	60	24.4	31.1	29.7
SUMMERLAND RES CAN.	4200	4/26/94	0	.0	4.9	6.3
SUNDAY SUMMIT CAN.	4300	5/02/94	0	.0	.0	.8
TROUT CREEK CAN.	4690	4/30/94	0	.0	2.8	4.8
VASEUX CREEK CAN.	4600	4/26/94	0	.0	2.5	3.0
WHITE ROCKS MTN CAN.	6000	4/29/94	27	11.7	19.4	22.4
METHOW RIVER						
HARTS PASS	6500	4/27/94	67	31.1	33.4	45.1
HARTS PASS PILLOW	6500	5/01/94	---	26.7S	35.8	42.0
SALMON MDWS PILLOW	4500	5/01/94	---	.0S	3.9	1.1
CHELAN LAKE BASIN						
LYMAN LAKE PILLOW	5900	5/01/94	---	42.2S	41.4	58.7
MINERS RIDGE PILLOW	6200	5/01/94	---	35.9S	39.5	51.3
PARK CK RIDGE PILLOW	4600	5/01/94	---	13.7E	25.6	33.6
RAINY PASS	4780	4/29/94	56	26.6	24.2	40.6
RAINY PASS PILLOW	4780	5/01/94	---	24.7S	25.5	36.8
ENTIAT RIVER						
POPE RIDGE PILLOW	3540	5/01/94	---	.0S	1.9	1.6
WENATCHEE RIVER						
BLEWETT PASS#2PILLOW	4270	5/01/94	---	.3S	3.3	4.9
FISH LAKE PILLOW	3370	5/01/94	---	13.5S	12.5	25.0
LYMAN LAKE PILLOW	5900	5/01/94	---	42.2S	41.4	58.7
STEVENS PASS PILLOW	4070	5/01/94	---	35.2S	22.4	32.1
TROUGH #2 PILLOW	5310	5/01/94	---	.0S	5.6	2.5
UPPER WHEELER PILLOW	4400	5/01/94	---	2.0S	8.5	4.8
SQUILCHUCK CREEK						
STEMILT CREEK						
UPPER WHEELER PILLOW	4400	5/01/94	---	2.0S	8.5	4.8
COLOCKUM CREEK						
TROUGH #2 PILLOW	5310	5/01/94	---	.0S	5.6	2.5
YAKIMA RIVER						
BIG BOULDER CREEK	3200	5/01/94	---	5.3E	7.5	7.7
BLEWETT PASS#2PILLOW	4270	5/01/94	---	.3S	3.3	4.9
BUMPING LAKE (NEW)	3400	5/01/94	---	7.6E	.0	10.9
BUMPING RIDGE PILLOW	4600	5/01/94	---	16.6S	19.8	18.9
CAYUSE PASS	5300	5/01/94	---	68.7E	--	88.1
CORRAL PASS PILLOW	6000	5/01/94	---	24.8S	31.7	29.5
FISH LAKE	3370	5/01/94	---	12.1E	9.5	22.4
FISH LAKE PILLOW	3370	5/01/94	---	13.5S	12.5	25.0
GREEN LAKE PILLOW	6000	5/01/94	---	14.0S	20.7	19.7
GROUSE CAMP PILLOW	5380	5/01/94	---	2.8S	8.8	9.2
LOST HORSE PILLOW	5000	5/01/94	---	.2S	12.8	8.2
MORSE LAKE PILLOW	5400	5/01/94	---	30.6S	44.3	44.4
OLALLIE MDWS PILLOW	3960	5/01/94	---	34.2S	35.8	51.0
SASSE RIDGE PILLOW	4200	5/01/94	---	17.9S	21.7	24.1

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
STAMPEDE PASS PILLOW	3860	5/01/94	---	27.3S	28.3	39.1
TUNNEL AVENUE	2450	5/01/94	---	8.3E	2.6	12.7
WHITE PASS ES PILLOW	4500	5/01/94	---	14.0S	14.5	18.7
AHTANUM CREEK						
GREEN LAKE PILLOW	6000	5/01/94	---	14.0S	20.7	19.7
LOST HORSE PILLOW	5000	5/01/94	---	.2S	12.8	8.2
MILL CREEK						
HIGH RIDGE PILLOW	4980	5/01/94	---	.0S	14.2	12.4
TOUCHET #2 PILLOW	5530	5/01/94	---	20.7	29.7	27.3
LEWIS - COWLITZ RIVERS						
CAYUSE PASS	5300	5/01/94	---	68.7E	--	88.1
JUNE LAKE PILLOW	3200	5/01/94	---	19.1S	25.7	19.6
LONE PINE PILLOW	3800	5/01/94	---	24.2S	28.3	26.4
PARADISE PARK PILLOW	5500	5/01/94	---	61.2S	68.9	61.8
PIGTAIL PEAK PILLOW	5900	5/01/94	---	36.0S	46.8	47.7
POTATO HILL PILLOW	4500	5/01/94	---	13.0S	15.7	17.0
SHEEP CANYON PILLOW	4050	5/01/94	---	24.1S	18.5	34.7
SPENCER MDW PILLOW	3400	5/01/94	---	18.4S	15.5	17.2
SPIRIT LAKE PILLOW	3100	5/01/94	---	.0S	.0	.3
SURPRISE LKS PILLOW	4250	5/01/94	---	35.1S	39.7	36.1
WHITE PASS ES PILLOW	4500	5/01/94	---	14.0S	14.5	18.7
WHITE RIVER						
CAYUSE PASS	5300	5/01/94	---	68.7E	--	88.1
CORRAL PASS PILLOW	6000	5/01/94	---	24.8S	31.7	29.5
HORSE LAKE PILLOW	5400	5/01/94	---	30.6S	44.3	44.4
GREEN RIVER						
COUGAR MTN. PILLOW	3200	5/01/94	---	.0S	.0	9.3
STAMPEDE PASS PILLOW	3860	5/01/94	---	27.3S	28.3	39.1
CEDAR RIVER						
MT. GARDNER PILLOW	2860	5/01/94	---	.0S	--	10.8
TINKHAM CREEK PILLOW	3000	5/01/94	---	7.4S	--	16.7
MEADOWS PASS PILLOW	3240	5/01/94	---	7.1S	--	21.0
SKYKOMISH RIVER						
STAMPEDE PASS PILLOW	3860	5/01/94	---	27.3S	28.3	39.1
SNOQUALMIE RIVER						
OLALLIE MDWS PILLOW	3960	5/01/94	---	34.2S	35.8	51.0
STEVENS PASS PILLOW	4070	5/01/94	---	35.2S	22.4	32.1
SKAGIT RIVER						
BEAVER CREEK TRAIL	2200	4/28/94	0	.0	.0	4.1
BEAVER PASS	3680	4/28/94	37	17.0	12.6	28.1
BROWN TOP AM	6000	4/28/94	90	44.4	40.6	61.7
DEVILS PARK	5900	4/27/94	66	29.6	29.2	45.0
FREEZEOUT CK. TRAIL	3500	4/27/94	0	.0	.7	7.0
HARTS PASS	6500	4/27/94	67	31.1	33.4	45.1
HARTS PASS PILLOW	6500	5/01/94	---	26.7S	35.8	42.0
KLESILKWA CAN.	3710	5/01/94	0	.0	.0	8.3
LIGHTNING LAKE CAN.	4000	5/02/94	3	.9	5.3	11.5
LYMAN LAKE PILLOW	5900	5/01/94	---	42.2S	41.4	58.7
MEADOWS CABIN	1900	4/28/94	0	.0	.0	1.1
NEW HOZOMEEN LAKE	2800	4/27/94	0	.0	.0	4.5
RAINY PASS	4780	4/29/94	56	26.6	24.2	40.6
RAINY PASS PILLOW	4780	5/01/94	---	24.7S	25.5	36.8
THUNDER BASIN	4200	4/28/94	39	15.6	12.2	30.5
THUNDER BASIN PILLOW	4200	5/01/94	---	17.4S	13.8	--
BAKER RIVER						
SCHREIBERS MDW AM	3400	5/01/94	---	42.2E	24.5	56.2
WATSON LAKES AM	4500	5/01/94	---	47.0E	43.9	67.2
ELWHA RIVER						
HURRICANE	4500	4/26/94	17	7.0	8.7	21.9
HORSE CREEK						
COX VALLEY	4500	4/30/94	51	23.8	20.6	39.1
DUNGENESS RIVER						
DEER PARK	5200	4/28/94	7	3.0	8.0	18.7
QUILCENE RIVER						
MOUNT CRAG PILLOW	4050	5/01/94	---	20.4S	17.9	22.4
WYNOOCHEE RIVER						

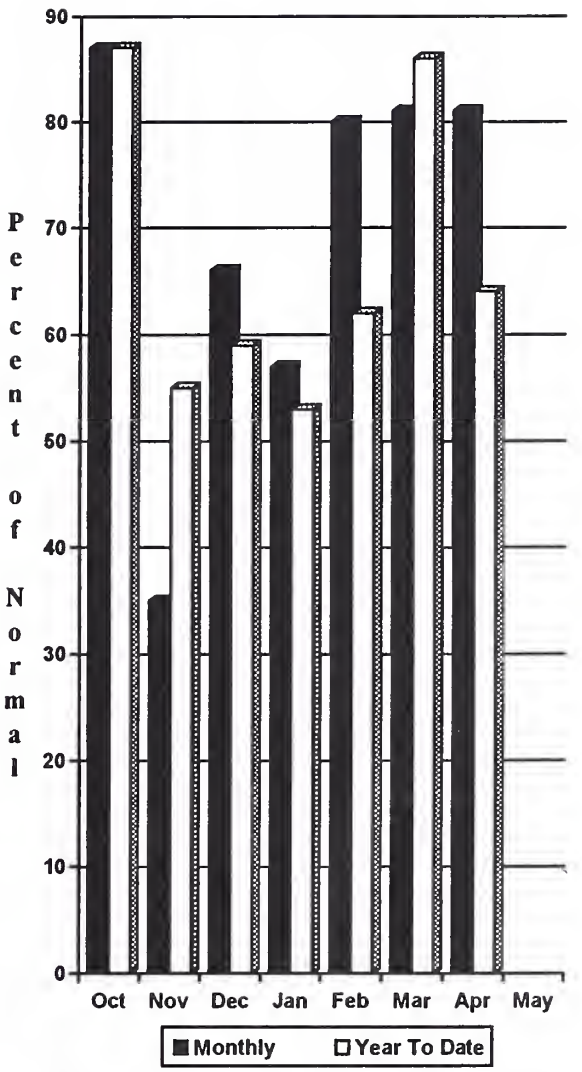
(d) Denotes discontinued site.

1) Spokane River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The May 1 forecasts for summer runoff within the Spokane River Basin are 41% of normal, down from 51% last month. The forecast is based on a snowpack that is 40% of average and precipitation that is 64% of normal for the water year. Precipitation for April was 81% of average. Streamflow in the Spokane River was 67% of average for April. May 1 storage in Coeur d'Alene Lake was 184,500 acre feet, 75% of normal, and 77% of capacity. Temperatures in the basin were three degrees above normal during April.

For more information contact your local Soil Conservation Service office.

SPOKANE RIVER BASIN

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------- Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SPOKANE near Post Falls	MAY-SEP	390	610	760	41	910	1130	1846
SPOKANE at Long Lake	MAY-JUL	515	740	895	45	1050	1280	1975
	MAY-SEP	700	930	1090	50	1250	1480	2198

SPOKANE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
COEUR D'ALENE	238.5	184.5	240.5	246.7

SPOKANE RIVER BASIN
Watershed Snowpack Analysis - May 1, 1994

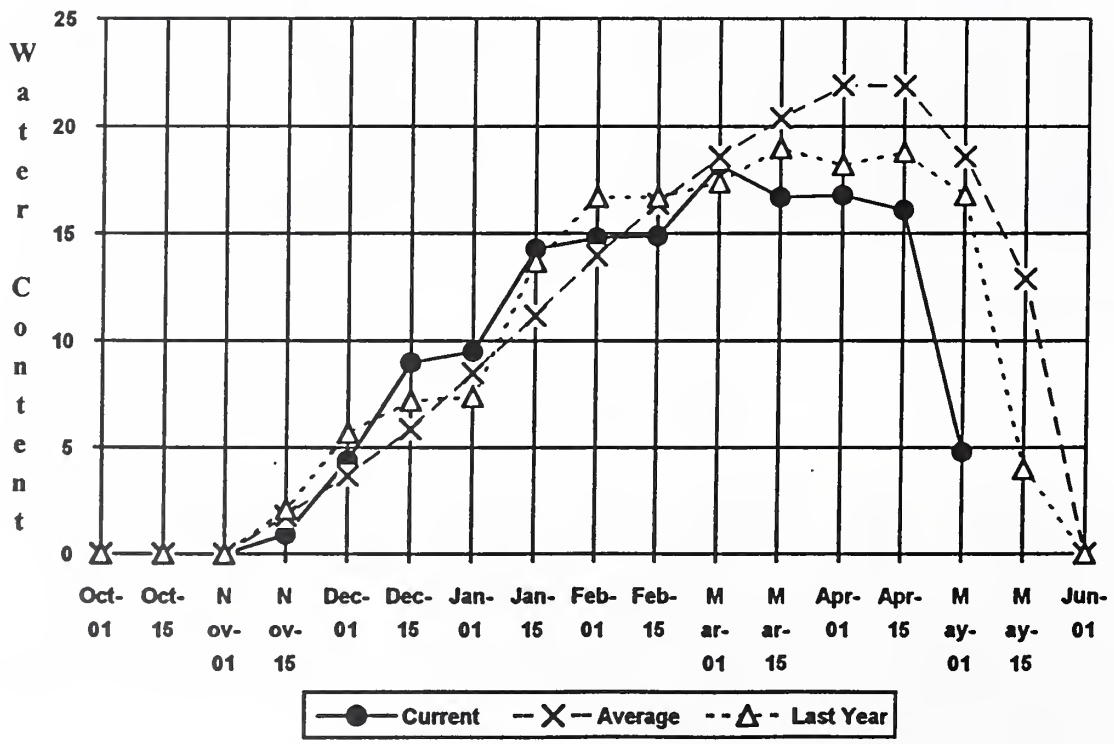
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Spokane River	10	51	40

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

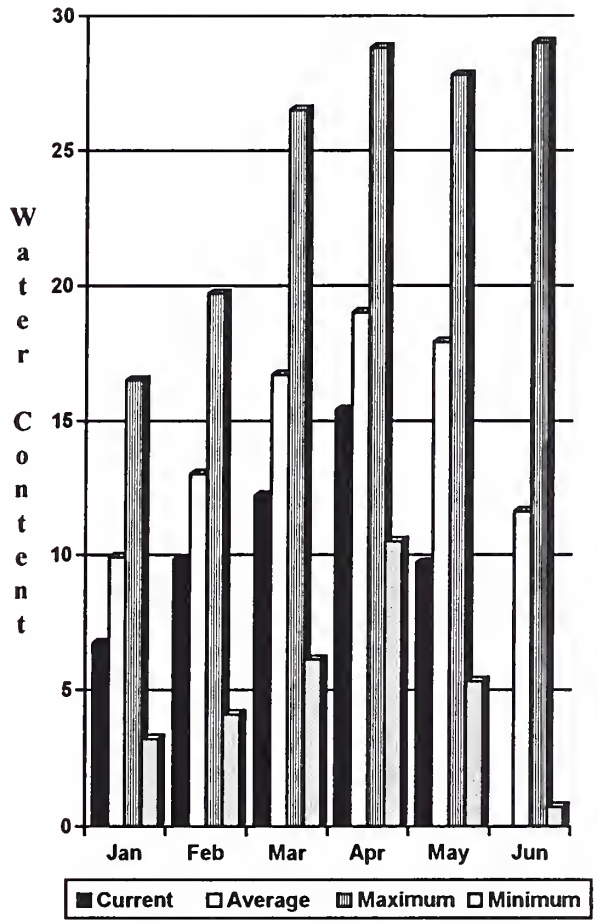
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Quartz Peak SNOTEL

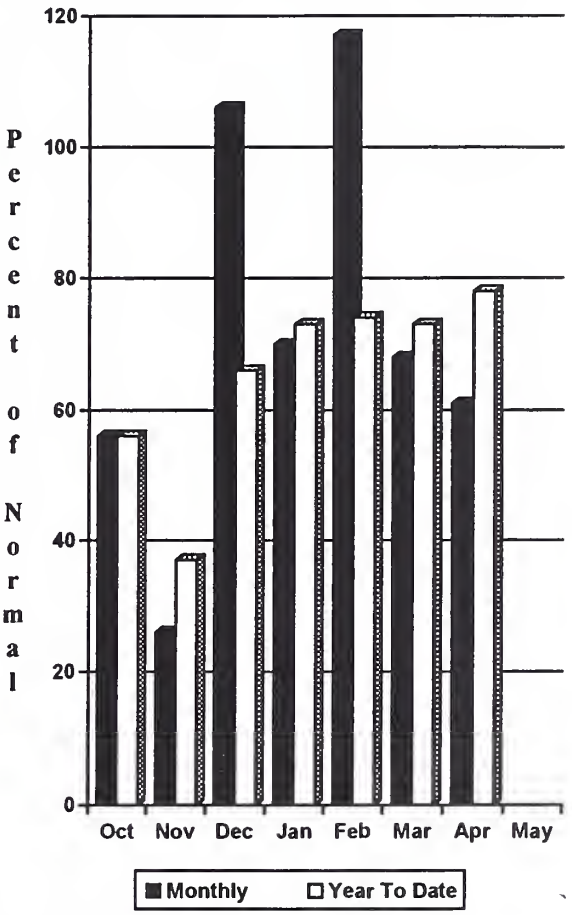


2) Colville - Pend Oreille River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The forecast for the Kettle River streamflow is for 82% of normal; the Pend Oreille, 54%, and the Colville River, 72% of normal for the summer runoff period. Forecast for the Columbia River at Birchbank is for runoff to be 92% of average. April streamflow was 108% of normal in the Pend Oreille River, 157% in the Columbia at the International Boundary, and 204% in the Kettle River. May 1 snow cover was 54% of normal in the Pend Oreille Basin. Snowpack at Bunchgrass Meadow SNOTEL site contained 13.8 inches of water, the average May 1 reading is 26.6 inches. Precipitation during April was 61% of average, bringing the water year-to-date to 78% of normal. Temperatures were four degrees above normal for April.

For more information contact your local Soil Conservation Service office.

COLVILLE - PEND OREILLE RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------ Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
PEND OREILLE bl Box Canyon (1,2)	MAY-JUL	3500	5180	5940	53	6700	8380	11220
	MAY-SEP	4010	5860	6700	54	7540	9390	12430
	MAY-JUN	2960	4360	4990	53	5620	7020	9410
CHAMOKANE CK nr Long Lake	MAY-AUG	0.3	3.1	5.1	54	7.1	9.9	9.4
	JUL-AUG	1.6	1.9	2.0	61	2.1	2.4	3.3
COLVILLE at Kettle Falls	MAY-SEP	37	51	61	72	70	84	84
	MAY-JUL	29	42	51	70	60	73	73
	MAY-JUN	25	37	45	70	53	65	64
KETTLE near Laurier	MAY-SEP	1030	1190	1300	82	1410	1570	1582
	MAY-JUL	1090	1230	1320	89	1410	1550	1489
	MAY-JUN	1000	1110	1190	91	1270	1380	1314
COLUMBIA at Birchbank (1,2)	MAY-JUL	25800	28100	29100	91	30100	32400	32090
	MAY-SEP	33300	36200	37500	92	38800	41700	40760
	MAY-JUN	18300	19900	20600	91	21300	22900	22620
COLUMBIA at Grand Coulee Dm (1,2)	MAY-SEP	41800	46000	47900	83	49800	54000	57921
	MAY-JUL	34100	37500	39100	82	40700	44100	47614
	MAY-JUN	25700	28200	29400	82	30600	33100	35827

COLVILLE - PEND OREILLE RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ROOSEVELT	5232.0	4191.0	4617.3	1310.0
BANKS	715.0	670.9	648.0	435.0

COLVILLE - PEND OREILLE RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Colville River	0	0	0
Pend Oreille River	86	67	54
Kettle River	8	78	60

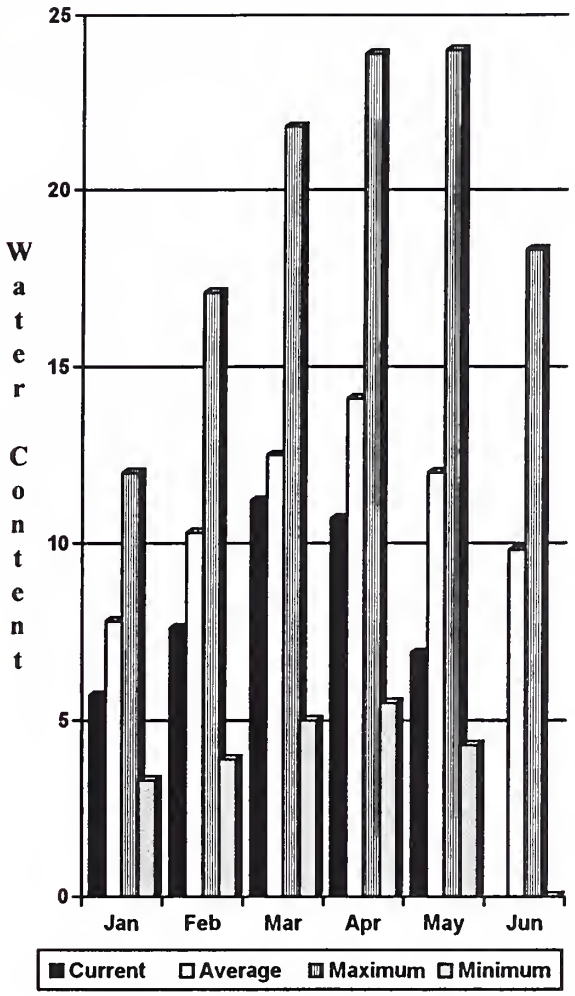
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

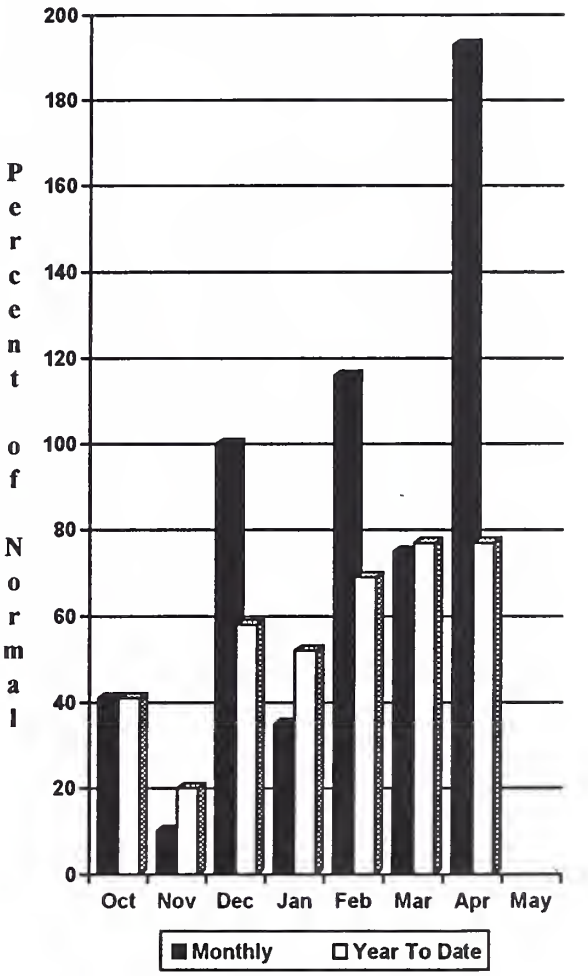
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

3) Okanogan - Methow River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

Summer runoff forecast for the Okanogan River is for 51% of normal; the Similkameen River, 50%, and the Methow River, 64% of normal. A new forecast point on Salmon Creek near Conconully was 67% of average. May 1 snow cover in the Okanogan was 57% of normal, the Smilkameen 33%, and the Methow 62%. April precipitation in the Okanogan - Methow was 193% of normal, with water year-to-date at 77% of average. April streamflow in the Methow River was 153% of normal, 225% in the Similkameen, and 206% in the Okanogan River. Snow water content at the Harts Pass SNOTEL, elevation 6500 feet, was 25.7 inches; normal for this site is 41.7 inches. Temperatures were four degrees above normal for April. Storage in the Conconully Reservoir was 11,627 acre feet, which is 74% of capacity and 137% of the May 1 average.

For more information contact your local Soil Conservation Service office.

OKANOGAN - METHOW RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------ Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SIMILKAMEEN nr Nighthawk (1)	MAY-SEP	415	580	655	50	730	895	1300
	MAY-JUL	425	575	640	53	705	855	1205
	MAY-JUN	335	475	540	53	605	745	1014
OKANOGAN RIVER nr Tonasket (1)	MAY-SEP	220	585	750	51	915	1280	1485
	MAY-JUL	220	545	690	52	835	1160	1328
	MAY-JUN	91	345	458	42	575	825	1095
SALMON CREEK nr Conconully	MAY-JUL	1.9	7.9	11.9	66	15.9	22	18.0
	MAY-SEP	2.1	8.3	12.6	67	16.9	23	18.9
METHOW RIVER nr Pateros (1)	MAY-SEP	340	480	545	64	610	750	854
	MAY-JUL	335	460	520	66	580	705	786
	MAY-JUN	265	385	440	67	495	615	659

OKANOGAN - METHOW RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SALMON LAKE	10.5	9.9	7.7	8.0
CONCONULLY RESERVOIR	13.0	11.6	6.7	8.0

OKANOGAN - METHOW RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

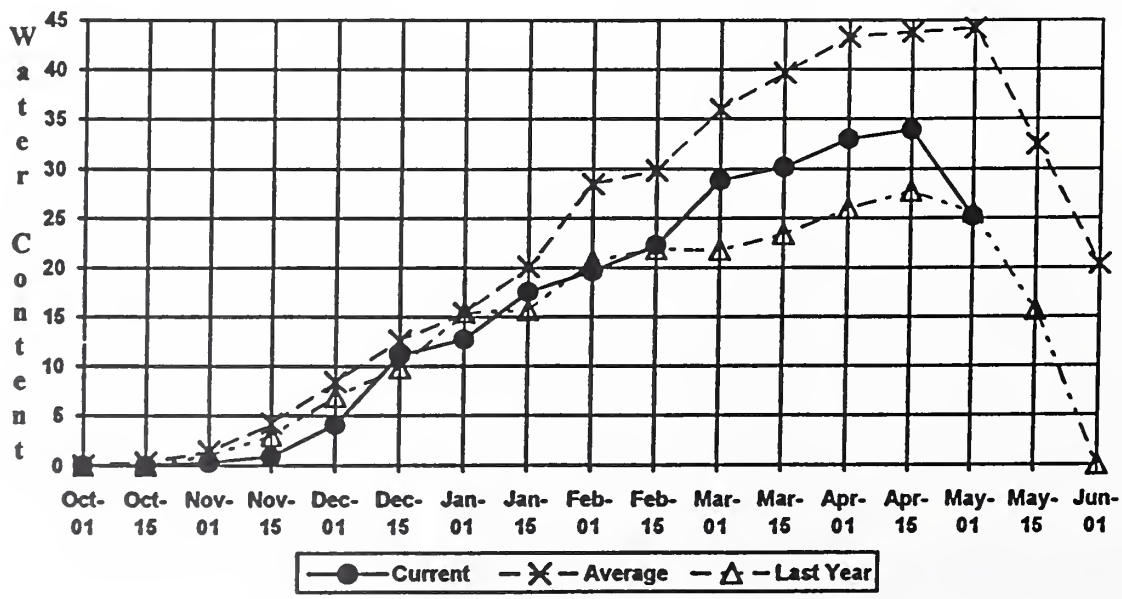
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Okanogan River	27	62	52
Methow River	2	67	62

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

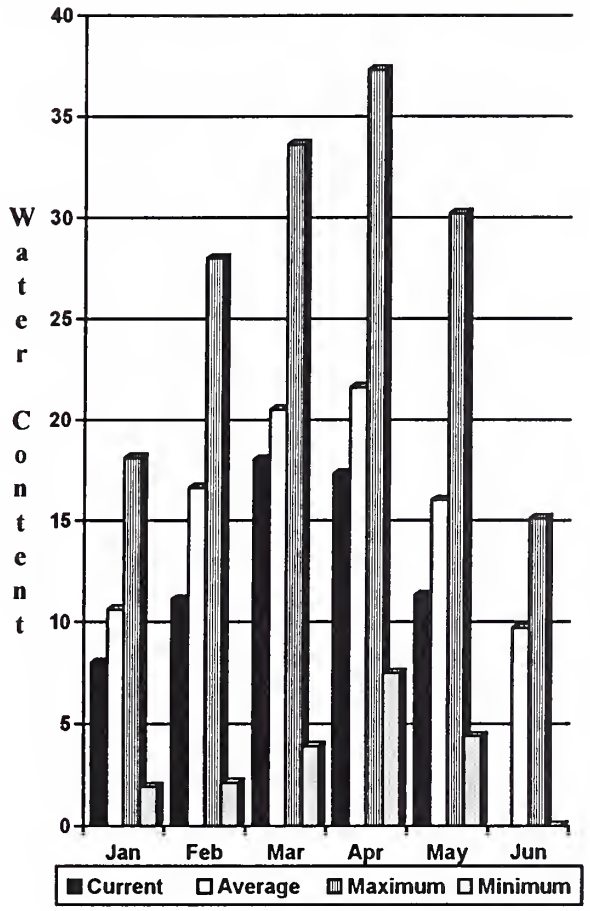
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Rainy Pass SNOTEL

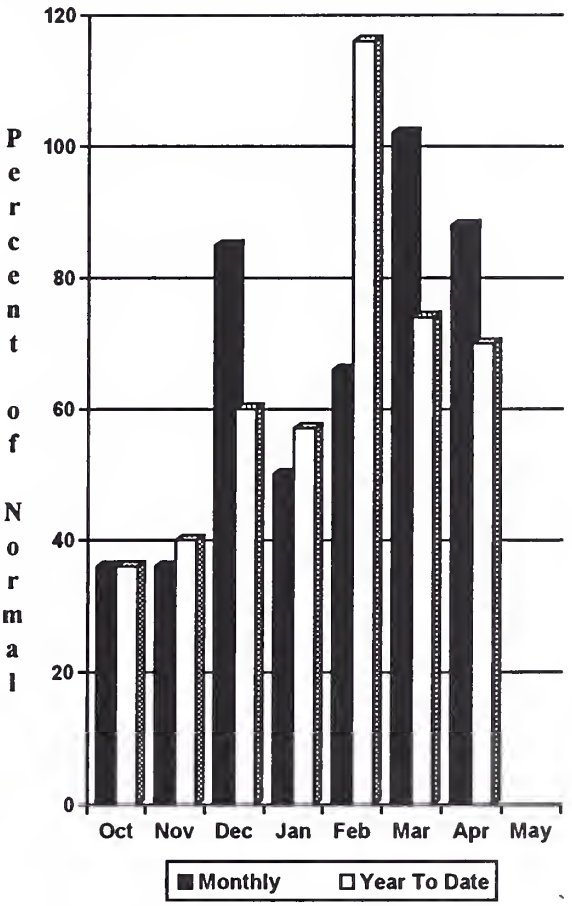


4) Wenatchee - Chelan River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

The summer forecast for the Chelan River is for 69% of normal, for the Wenatchee River it is 54%, and 76% for the Squilchuck-Stemilt. Icicle Creek can expect below normal runoff this summer. Streamflow for April on the Chelan River was 156% of average and on the Wenatchee River it was 143% of normal. May 1 snowpack in the Wenatchee Basin was 70% of average, the Chelan 65% and the Stimelt was 42% of normal. Precipitation during April was 88% of normal in the basin and 70% for the year-to-date. Runoff for the Entiat River is forecast to be 74% of normal for the summer. Reservoir storage in Lake Chelan was 281,300 acre feet or 63% of May 1 average and 42% of capacity. Lyman Lake SNOTEL had the most snow water with 42.2 inches of water. This site would normally have 58.4 inches.

For more information contact your local Soil Conservation Service office.

WENATCHEE - CHELAN RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------ Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CHELAN RIVER at Chelan (1)	MAY-SEP	515	655	720	69	785	925	1041
	MAY-JUL	455	575	633	70	690	815	905
	MAY-JUN	365	455	500	72	545	635	693
STEHEKIN R. at Stehekin	MAY-SEP	475	520	550	73	580	625	751
	MAY-JUL	395	435	460	74	485	525	625
	MAY-JUN	295	320	340	74	360	385	462
ENTIAT RIVER nr Ardenvoir	MAY-SEP	122	141	154	74	167	186	208
	MAY-JUL	111	128	140	74	152	169	188
	MAY-JUN	90	104	113	75	122	136	150
WENATCHEE R. at Peshastin	MAY-SEP	275	570	765	54	960	1250	1428
	MAY-JUL	270	530	705	55	880	1140	1277
	MAY-JUN	230	430	568	57	705	905	997
STEMILT nr Wenatchee (miners in)	MAY-SEP	60	87	105	76	123	150	138
ICICLE CREEK nr Leavenworth	APR-SEP	184	255	305	82	355	425	370
	APR-JUL	169	235	280	82	325	390	340
	APR-JUN	137	189	225	83	260	315	270
COLUMBIA R. bl Rock Island Dam (2)	MAY-SEP	44200	48400	51300	81	54200	58400	62987
	MAY-JUL	36400	39900	42300	81	44700	48200	52239
	MAY-JUN	27600	30200	32000	81	33800	36400	39509

WENATCHEE - CHELAN RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CHELAN LAKE	676.1	281.3	209.9	448.8

WENATCHEE - CHELAN RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Chelan Lake Basin	4	88	65
Entiat River	1	0	0
Wenatchee River	7	102	70
Squilchuck Creek	0	0	0
Stemilt Creek	1	24	42
Colockum Creek	1	0	0

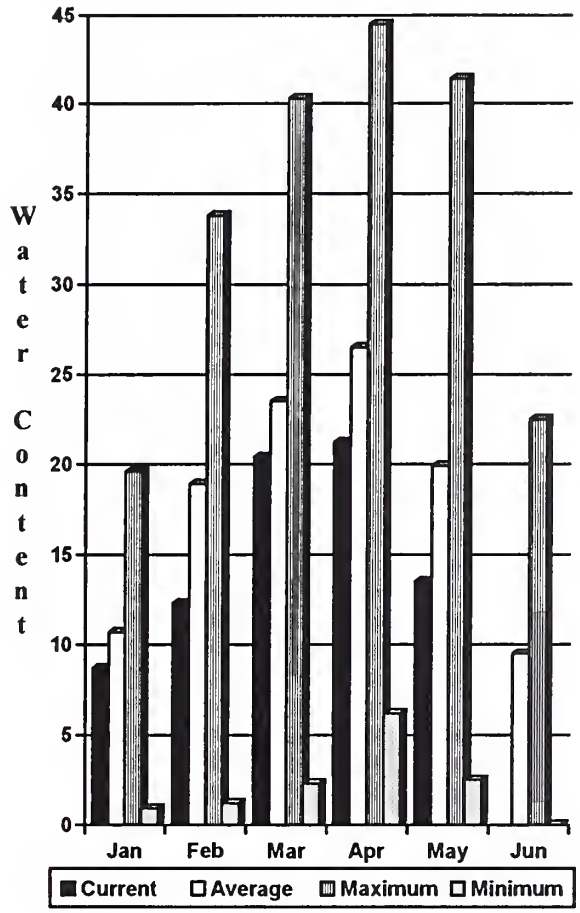
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

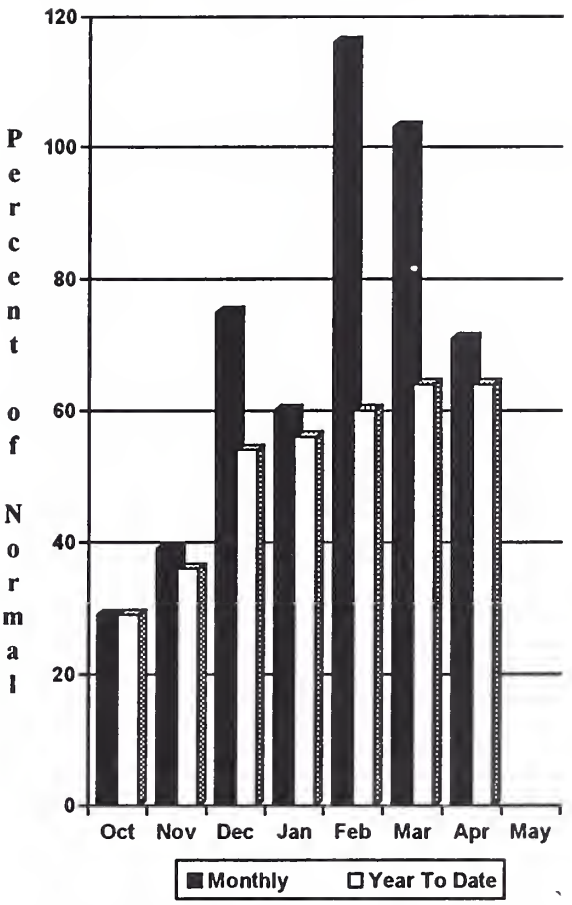
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

5) Yakima River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

May 1 reservoir storage for the five major reservoirs was 513,200 acre feet, 66% of average. May 1 summer streamflow forecasts are for below normal in the Yakima Basin. Forecasts for the Yakima River at Cle Elum are for 66% of normal; Naches River, 72%; the Yakima River near Parker, 65%; Ahtanum Creek, 71%; and the Tieton River, 76%. A new forecast point for the Klickitat River near Glenwood was 55% of normal. April streamflows had the Yakima River at Parker at 105% of normal, 129% for the Yakima near Cle Elum, and 123% for the Naches River. May 1 snowpack was 68% based upon 15 snow courses and SNOTEL readings. April precipitation was 71% of normal and 64% for the water year-to-date. Temperatures were three degrees above average for April. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U. S. Bureau of Reclamation's forecast for the total water supply available which includes irrigation return flow.

For more information contact your local Soil Conservation Service office.

YAKIMA RIVER BASIN

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------ Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	50% (Most Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
KEECHELUS LAKE INFLOW	MAY-JUL	48	58	65	68	72	82	96
	MAY-SEP	50	63	71	66	79	92	107
	MAY-JUN	39	49	56	69	63	73	81
KACHESS LAKE INFLOW	MAY-JUL	46	52	57	66	62	69	86
	MAY-SEP	45	54	59	64	65	73	92
	MAY-JUN	39	46	50	68	54	61	74
CLE ELUM LAKE INFLOW	MAY-JUL	199	215	230	68	245	260	339
	MAY-SEP	210	235	250	66	265	290	378
	MAY-JUN	154	174	188	68	200	220	276
YAKIMA at Cle Elum	MAY-JUN	305	345	370	68	395	435	546
	MAY-JUL	380	420	447	68	475	515	657
	MAY-SEP	405	455	490	66	525	575	740
BUMPING LAKE INFLOW	MAY-SEP	69	80	87	74	94	105	117
	MAY-JUL	67	75	81	76	87	95	106
	MAY-JUN	54	61	66	77	71	78	86
AMERICAN RIVER near Nile	MAY-SEP	67	76	82	80	88	97	102
	MAY-JUL	61	70	75	82	81	89	92
	MAY-JUN	49	57	63	84	69	77	75
RIMROCK LAKE INFLOW	MAY-SEP	130	145	155	76	165	180	204
	MAY-JUL	113	123	130	78	137	148	167
	MAY-JUN	86	95	102	80	109	119	128
NACHES near Naches	MAY-SEP	405	455	493	72	530	580	686
	MAY-JUL	375	420	450	74	480	525	609
	MAY-JUN	310	350	375	74	400	440	505
AHTANUM CREEK nr Tampico (2)	MAY-SEP	19.0	24	27	71	30	36	38
	MAY-JUL	17.0	22	25	74	28	33	34
	MAY-JUN	15.0	18.0	21	75	24	27	28
YAKIMA near Parker	MAY-SEP	855	960	1030	65	1100	1200	1580
	MAY-JUL	775	865	930	67	995	1080	1390
	MAY-SEP	855	960	1030	65	1100	1200	1580
KLICKITAT near Glenwood	MAY-JUN	34	42	48	55	54	62	87
	MAY-SEP	45	57	64	55	72	83	117

YAKIMA RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
KEECHELUS	157.8	102.9	95.6	119.0
KACHESS	239.0	102.2	107.9	197.0
CLE ELUM	436.9	187.3	172.9	308.0
BUMPING LAKE	33.7	25.4	22.2	15.0
RIMROCK	198.0	95.4	102.4	144.0

YAKIMA RIVER BASIN
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
Yakima River	15	88	68
Ahtanum Creek	1	68	71

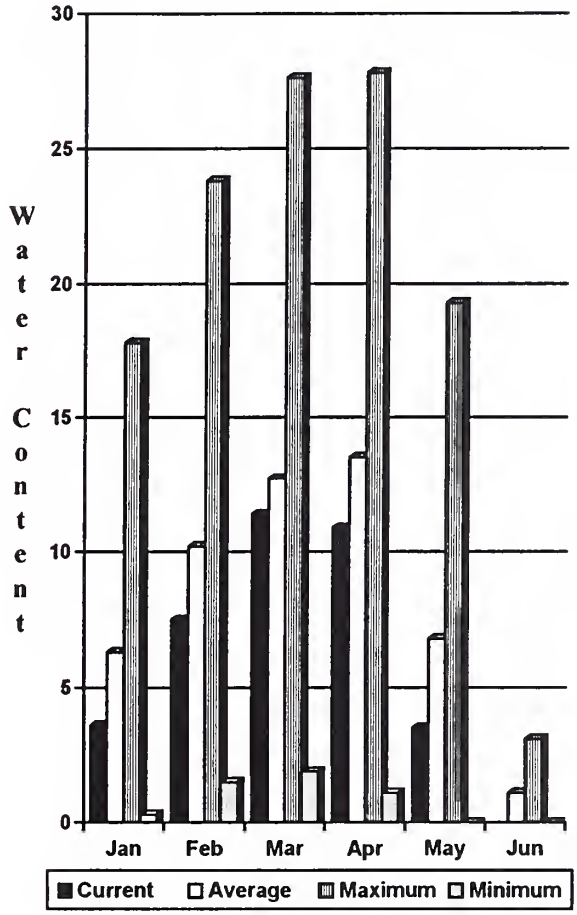
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

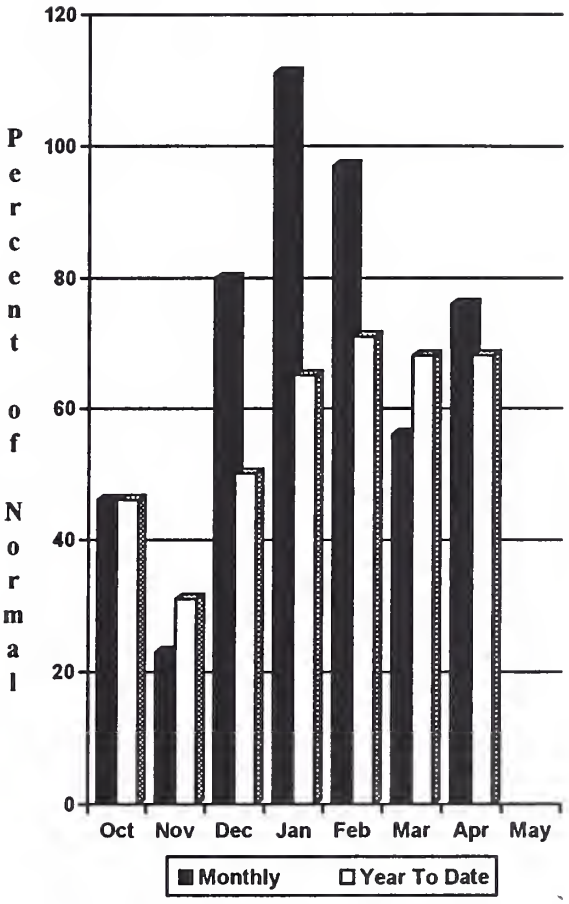
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

6) Walla Walla River Basin

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

May 1 snowpack was at 52% of normal. The forecast for the coming summer is for 81% of average streamflow in the Walla Walla River for 51% in the Grande Ronde; the Snake River, 81%; and 87% in Mill Creek. April streamflow was 135% of normal in the Walla Walla River, 71% for the Snake River, and 96% on the Grande Ronde River near Troy. April precipitation was 76% of average, bringing the year-to-date precipitation to 68% of normal. The Touchet SNOTEL site had 20.2 inches of water equivalent. The normal May 1 reading for this site is 26.7 inches. Temperatures were four degrees above average for April.

For more information contact your local Soil Conservation Service office.

WALLA WALLA RIVER BASIN

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------- Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	50% (Most Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GRANDE RONDE at Troy (1)	MAY-JUL	235	405	480	55	555	725	872
	MAY-SEP	220	405	490	51	575	760	970
SNAKE blw Lower Granite Dam (1,2)	MAY-JUL	3880	6140	7170	42	8200	10500	16940
	MAY-SEP	4450	7060	8250	42	9440	12100	19650
MILL CREEK at Walla Walla	MAY-SEP	3.4	5.3	6.6	88	7.9	9.8	7.5
	MAY-JUL	3.2	5.1	6.4	88	7.7	9.6	7.3
	MAY-JUN	3.2	5.0	6.2	87	7.4	9.2	7.1
SF WALLA WALLA nr Milton Freewater	MAY-JUL	24	28	30	81	32	36	37
COLUMBIA R. at The Dalles (2)	MAY-SEP	47000	53900	58500	68	63100	70000	85635
	MAY-JUL	38800	44500	48400	68	52300	58000	71413
	MAY-JUN	30400	34800	37800	68	40800	45200	55578

WALLA WALLA RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

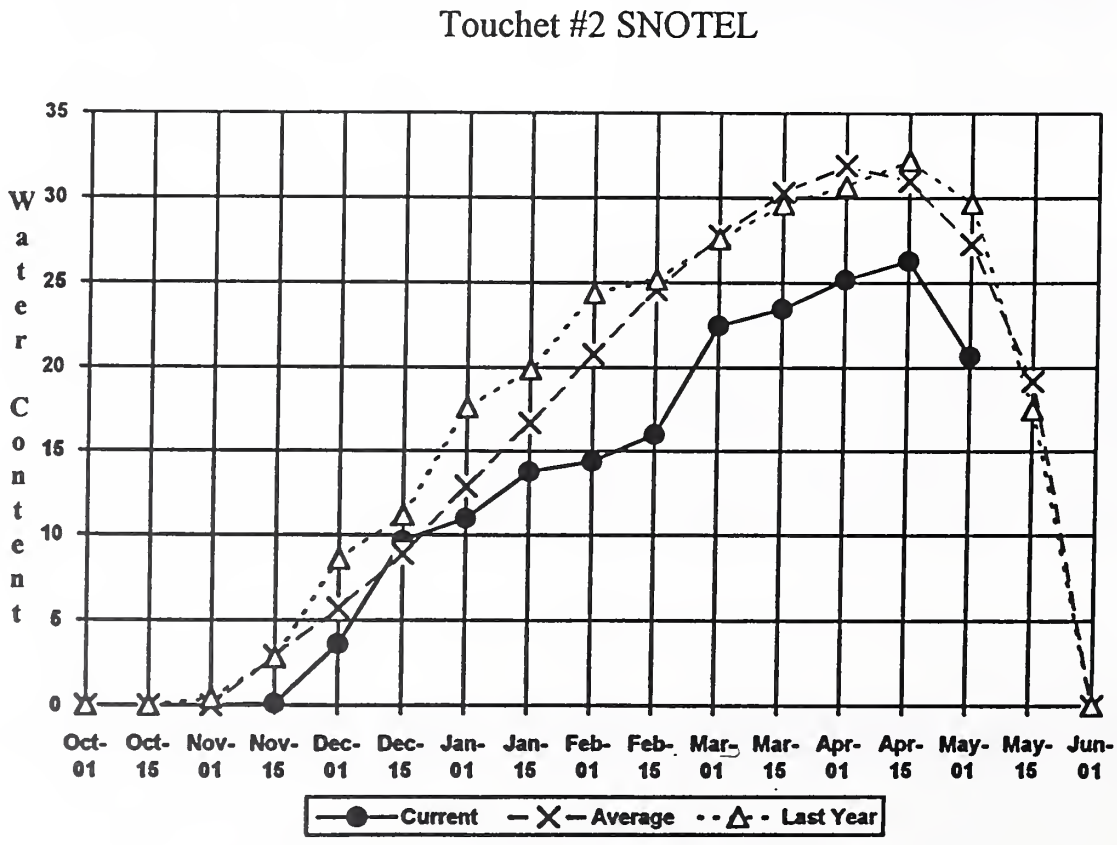
WALLA WALLA RIVER BASIN
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Mill Creek	2	47	52

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

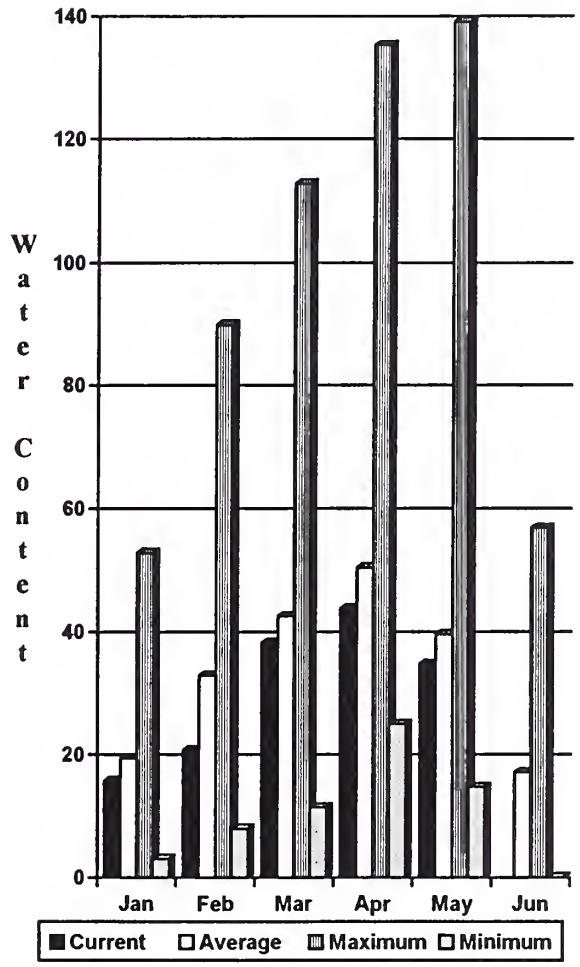
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

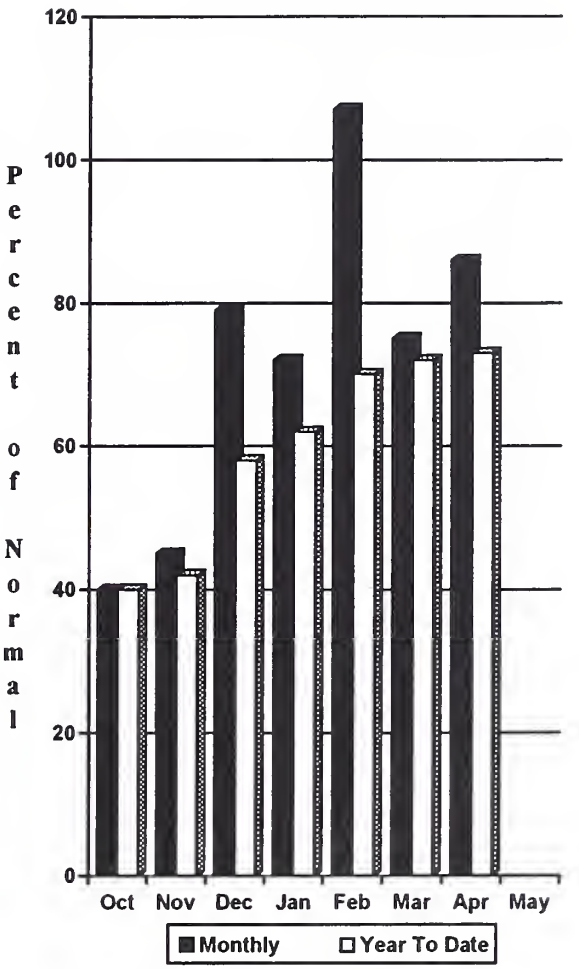


7) Cowlitz - Lewis River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

April precipitation was 86% of normal. It brought the precipitation to 73% of average for the water year. May 1 snow cover for the Cowlitz River was 82%, and for the Lewis River it was 97%. The forecast for summer runoff in the Lewis River is 52% of normal. The Cowlitz River, is forecasted for 53% of normal runoff. April streamflow in the Cowlitz River was 95% of average, and 142% in the Lewis River. The Paradise Park SNOTEL contained the most water content for the basin with 61.2 inches of water. Normal May 1 water content is 61.8 inches. Temperatures were three degrees above normal for April.

For more information contact your local Soil Conservation Service office.

COWLITZ - LEWIS RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------ Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LEWIS RIVER at Ariel (2)	MAY-SEP	230	355	440	52	525	655	848
	MAY-JUL	200	305	375	54	445	550	696
	MAY-JUN	176	260	320	55	380	465	578
COWLITZ R. bl Mayfield Dam (2)	MAY-SEP	35	500	815	53	1130	1600	1531
	MAY-JUL	29	420	685	53	950	1340	1292
	MAY-JUN	19.0	335	550	53	765	1080	1038
COWLITZ R. at Castle Rock (2)	MAY-SEP	20	570	975	48	1380	1970	2021
	MAY-JUL	17.0	470	806	48	1140	1640	1679
	MAY-JUN	14.0	380	650	48	920	1320	1349
KLICKITAT near Glenwood	MAY-JUN	34	42	48	55	54	62	87
	MAY-SEP	45	57	64	55	72	83	117

COWLITZ - LEWIS RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

COWLITZ - LEWIS RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

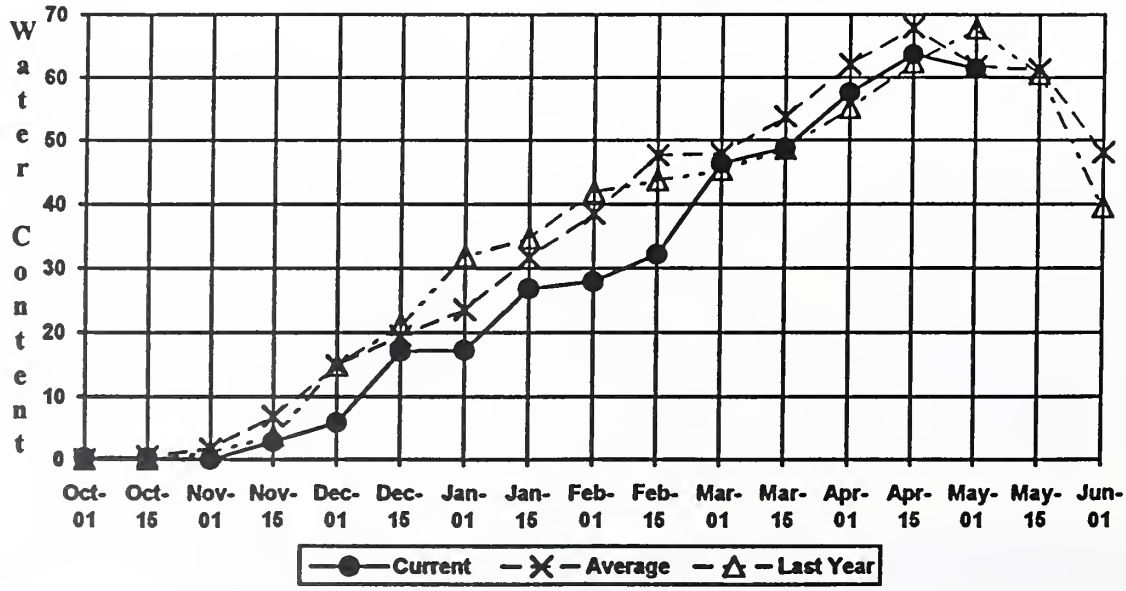
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Cowlitz River	6	90	82
Lewis River	4	89	97

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

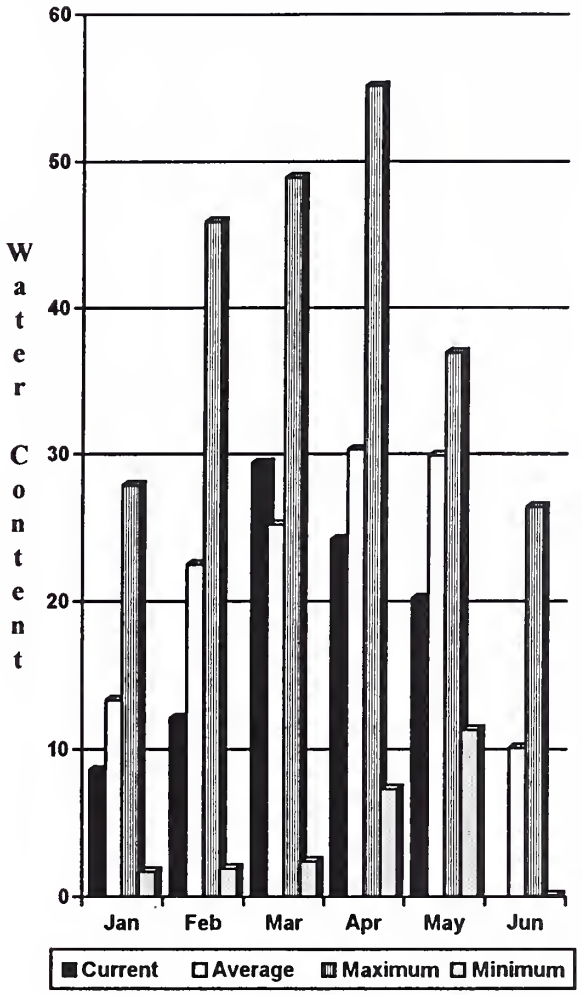
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

PARADISE SNOTEL

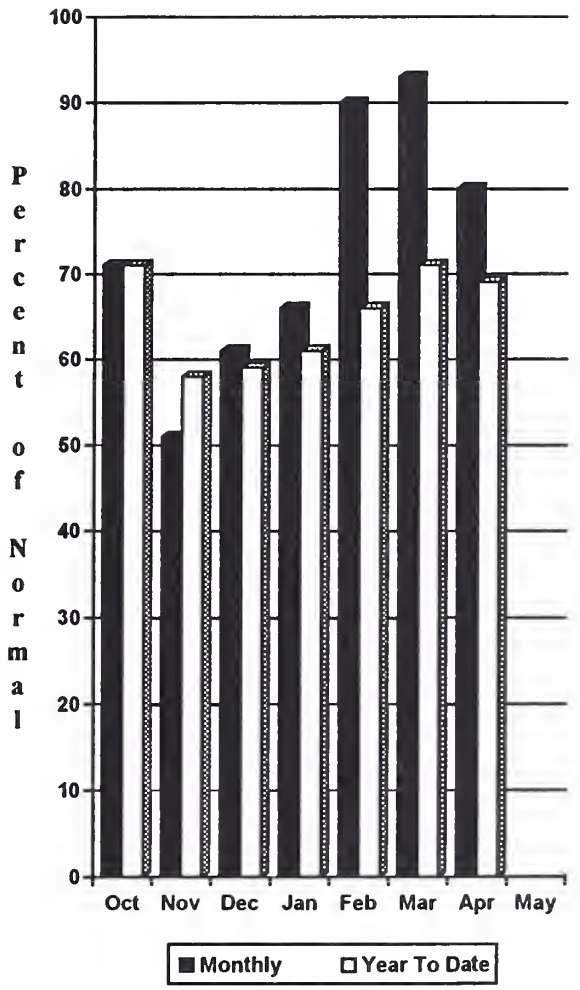


8) White - Green River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

April precipitation was 80% of normal, It brought the water year-to-date to 69% of average. Summer runoff is forecasted to be 69% of normal for the Green River and 72% for the Cedar River, 66% for the Rex River; 78% for the South Fork of the Tolt River and for the Cedar River at Cedar Falls, 64%. May 1 snowpack was 75% of normal in the White River Basin and 56% in the Green River Basin. Water content on May 1 at the Stampede Pass SNOTEL, at an elevation of 3860 feet, was 26.8 inches. This site has a May 1 average of 38.5 inches. Temperatures were three degrees above average for April.

For more information contact your local Soil Conservation Service office.

WHITE - GREEN RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------- Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	50% (Most Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GREEN RIVER below Howard Hanson Dam	MAY-JUL	75	97	112	66	127	149	170
	MAY-SEP	96	121	137	69	154	178	198
	MAY-JUN	65	84	97	66	110	129	147
CEDAR RIVER near Cedar Falls	MAY-JUL	26	34	39	70	44	52	56
	MAY-SEP	31	40	46	72	52	61	64
	MAY-JUN	25	31	35	74	39	45	47
REX RIVER near Cedar Falls	MAY-JUL	7.0	10.1	12.3	64	14.5	17.6	19.2
	MAY-SEP	10.0	13.0	15.0	66	17.0	20	22
	MAY-JUN	6.6	9.1	10.8	64	12.5	15.0	16.8
CEDAR RIVER at Cedar Falls	MAY-JUL	4.0	22	35	65	48	66	54
	MAY-SEP	1.0	20	35	64	50	71	55
	MAY-JUN	10.0	24	33	63	42	56	52
SOUTH FORK TOLT near Index	MAY-JUL	5.8	7.3	8.3	73	9.3	10.8	11.4
	MAY-SEP	7.6	9.5	10.8	78	12.1	14.0	13.9
	MAY-JUN	5.0	6.2	7.0	75	7.8	9.0	9.3

WHITE - GREEN RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

WHITE - GREEN RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
White River	2	73	75
Green River	2	96	56
Cedar River	0	0	0

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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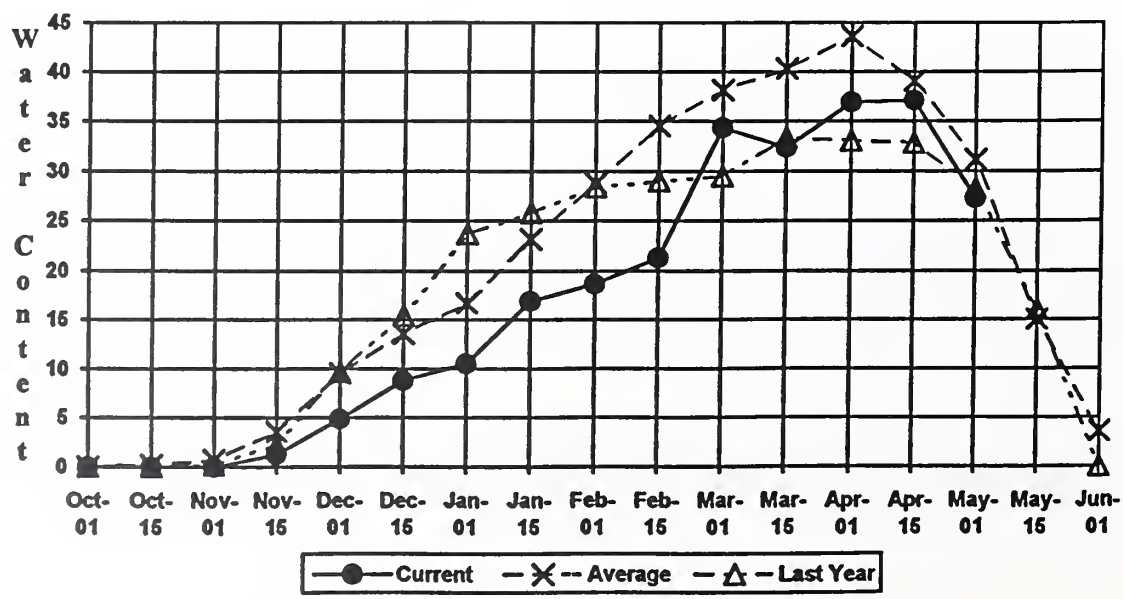
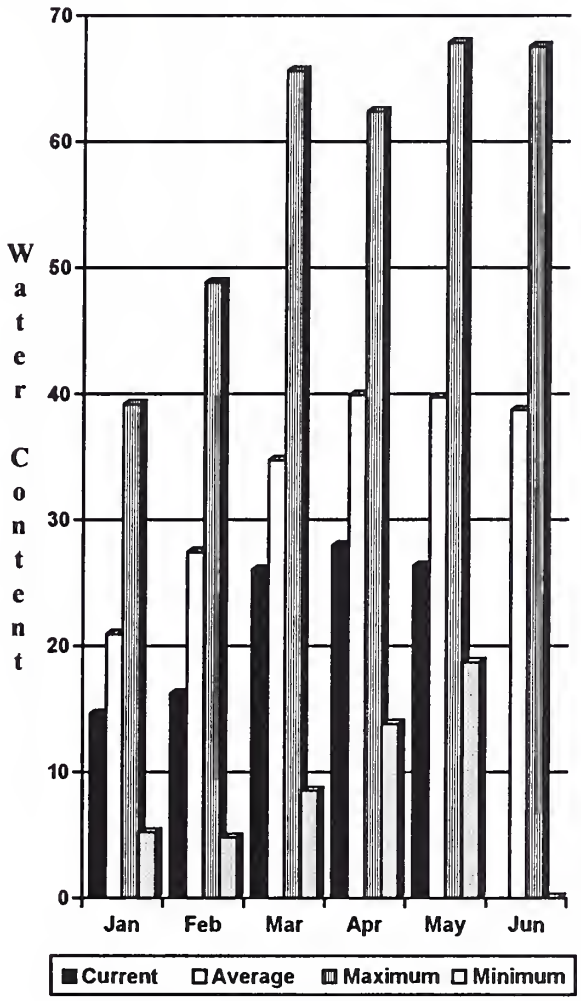
Stampede Pass SNOTEL

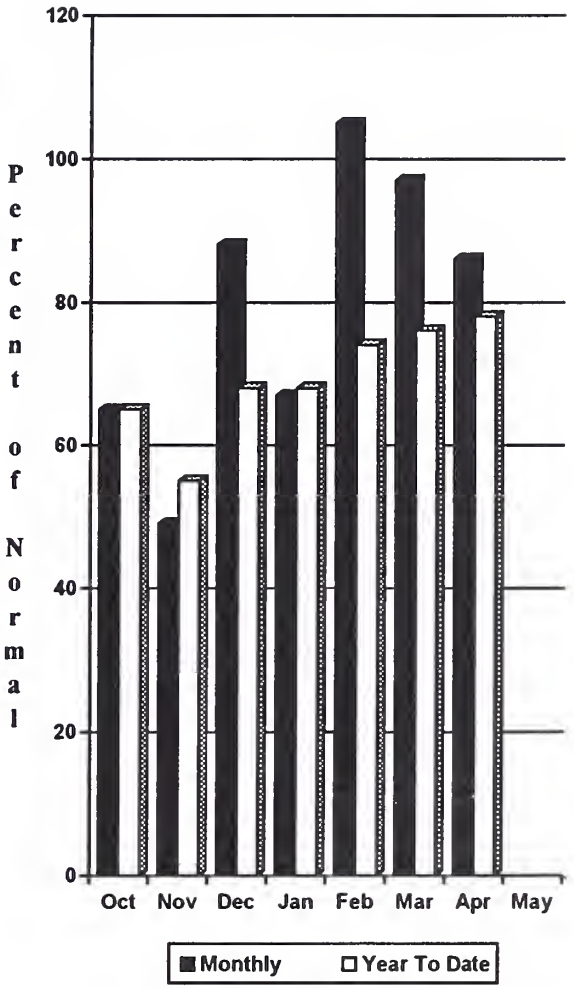


9) North Puget Sound River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

May 1 snow cover in the Skagit River was 59% of normal, and in the Baker River it was 72% of average. Forecast for the Skagit River streamflow is for 65% of normal for the spring and summer period. April streamflow in the Skagit River was 127% of average. Other summer forecasts include the Baker River at 84% of average and Thunder Creek at 81%. Precipitation for April was 86% of average with a water year-to-date at 78% of normal. Rainy Pass SNOTEL, at 4780 feet, had 24.7 inches of water content. Normal May 1 water content is 36.4 inches. May 1 reservoir storage was above average, with Ross Lake at 139% normal and 64% of capacity. April temperatures were four degrees above normal.

For more information contact your local Soil Conservation Service office.

NORTH PUGET SOUND RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------ Drier ------ Future Conditions ------- Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
THUNDER CREEK near Newhalem	MAY-JUL	146	160	170	81	180	194	209
	MAY-SEP	230	240	250	81	260	270	308
	MAY-JUN	85	97	106	82	115	128	129
SKAGIT RIVER at Newhalem (2)	MAY-SEP	965	1150	1270	65	1390	1580	1963
	MAY-JUL	810	960	1060	66	1160	1310	1608
	MAY-JUN	610	740	830	70	920	1050	1188
BAKER RIVER near Concrete	MAY-JUL	490	540	575	82	610	660	703
	MAY-SEP	655	730	780	84	830	905	930
	MAY-JUN	310	355	390	82	425	470	478

NORTH PUGET SOUND RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ROSS	1404.1	893.3	636.2	644.4
DIABLO RESERVOIR	90.6	87.0	87.6	---
GORGE RESERVOIR	9.8	8.0	8.1	---

NORTH PUGET SOUND RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Snohomish River	3	112	79
Skagit River	13	99	59
Baker River	2	130	72

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

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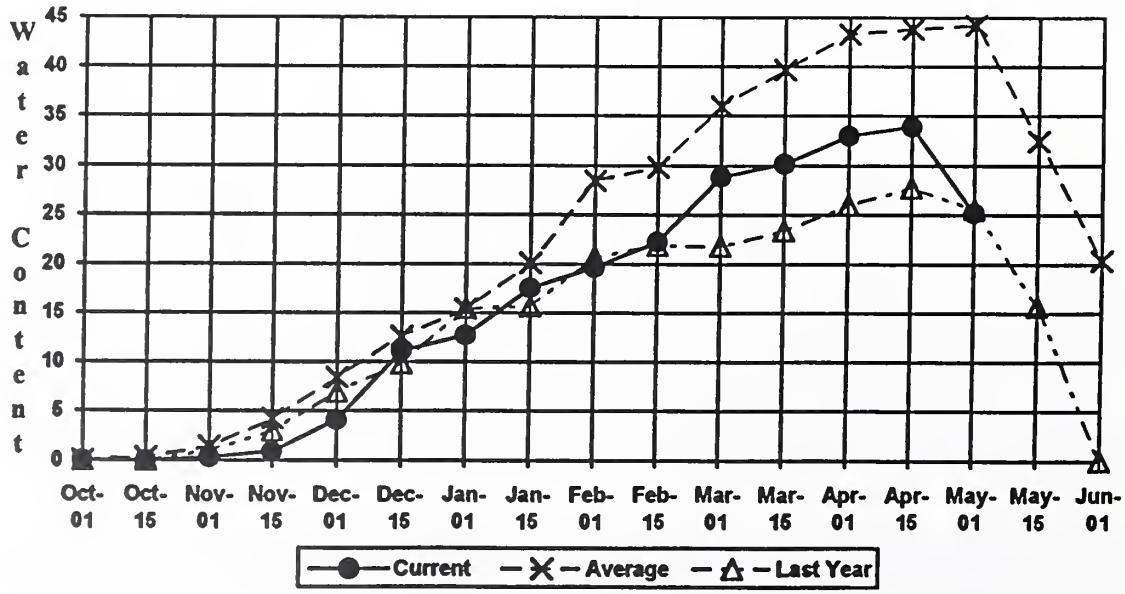
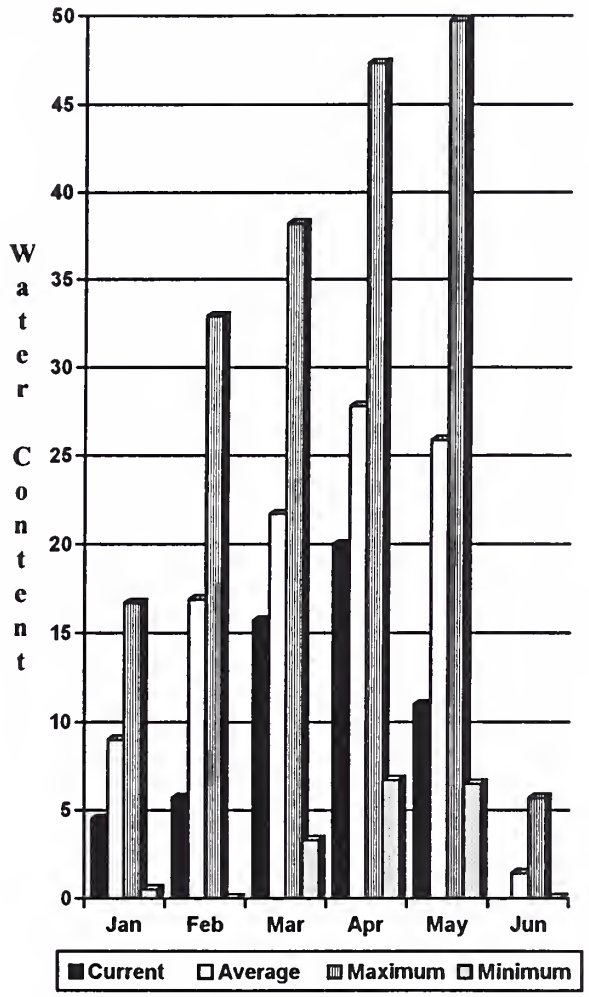
Rainy Pass SNOTEL

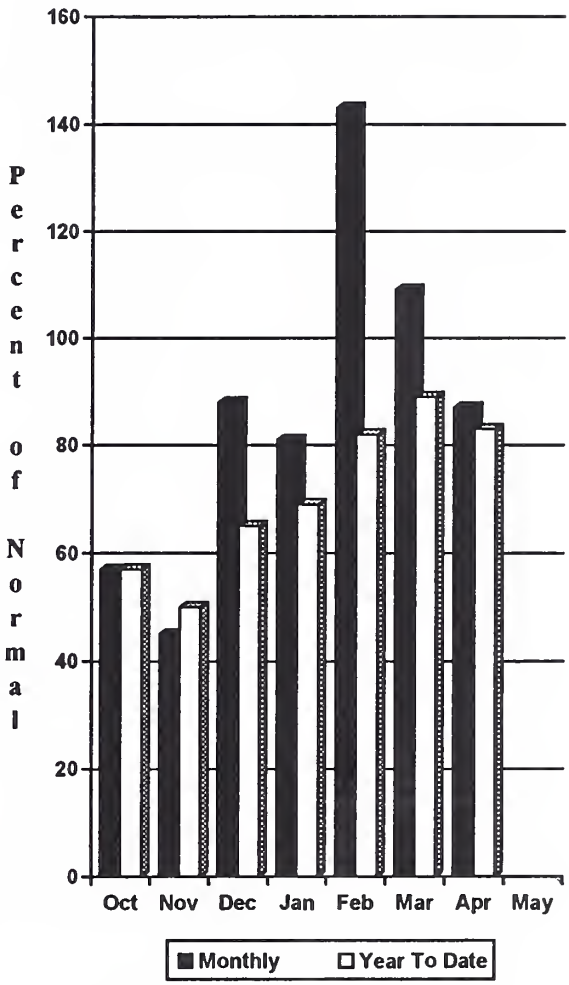


10) Olympic Peninsula River Basins

Mountain Snowpack* (inches)



Precipitation* (% of normal)



*Based on selected stations

April precipitation was 87% of average. Precipitation has accumulated at 83% of normal for the water year. April precipitation at Quillayute was 6.5 inches. May 1 snow cover at Mount Crag SNOTEL in the Olympic Basin was slightly below normal at 91%. May forecasts for streamflow in the basin are for 73% of average for the Dungeness River and 75% for the Elwha River. The Big Quilcene can expect near normal runoff this summer. The Mount Crag SNOTEL near Quilcene had 20.4 inches of snow water content on May 1. Normal May 1 water content is 21.6 inches. Temperatures were three degrees above normal for April.

For more information contact your local Soil Conservation Service office.

OLYMPIC PENINSULA RIVER BASINS

Streamflow Forecasts - May 1, 1994

Forecast Point	Forecast Period	<<------- Drier ------ Future Conditions -------- Wetter ------>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
DUNGENESS RIVER nr Sequim	MAY-SEP	79	93	102	73	111	125	140
	MAY-JUL	66	77	84	75	91	102	112
	MAY-JUN	46	55	62	78	69	78	79
ELWHA RIVER nr Port Angeles	MAY-SEP	245	290	320	75	350	395	427
	MAY-JUL	199	235	260	76	285	320	342

OLYMPIC PENINSULA RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

OLYMPIC PENINSULA RIVER BASINS
Watershed Snowpack Analysis - May 1, 1994

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Elwha River	1	80	32
Morse Creek	1	116	61
Dungeness River	1	38	16
Quilcene River	1	114	91
Wynoochee River	0	0	0

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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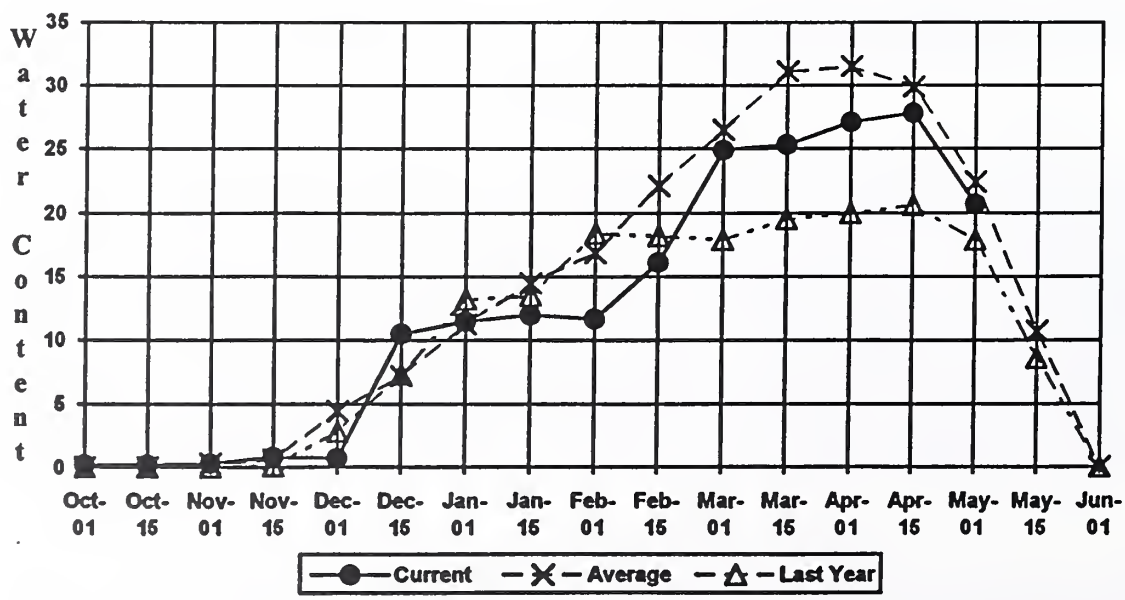
Mount Crag SNOTEL



In addition to basin outlook reports, a Water Supply Forecast for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Issued by

Paul W. Johnson
Chief
Soil Conservation Service
U.S. Department of Agriculture

Released by

Lynn A. Brown
State Conservationist
Soil Conservation Service
Spokane, Washington

The Following Organizations Cooperate With the Soil Conservation Service in Snow Survey Work*:

Canada	Ministry of the Environment Investigations Branch, Victoria, British Columbia
State	Washington State Department of Ecology Washington State Department of Natural Resources
Federal	Department of the Army Corps of Engineers U.S. Department of Agriculture Forest Service U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bonneville Power Administration Bureau of Reclamation Geological Survey National Park Service Bureau of Indian Affairs
Local	City of Tacoma City of Seattle Chelan County P.U.D. Pacific Power and Light Company Puget Sound Power and Light Company Washington Water Power Company Snohomish County P.U.D. Colville Confederated Tribes Spokane County Yakama Indian Nation
Private	Okanogan Irrigation District Wenatchee Heights Irrigation District Newman Lake Homeowners Association

***Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.**

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W. 316 Boone Avenue
Spokane, WA 99201-2349

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Washington Basin Outlook Report

Soil Conservation Service
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